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Title: **JP2000067853A2: NEGATIVE ELECTRODE FOR LITHIUM SECONDARY BATTERY**

Derwent Title: Negative electrode for lithium secondary battery having non-aqueous electrolyte - consists of a molded part of mixture containing lithium-containing composite nitride, carbon material, and binder [Derwent Record]

Country: JP Japan

Kind: A2 Document Laid open to Public inspection

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Published / Filed: 2000-03-03 / 1998-08-18

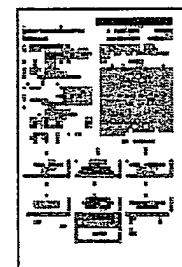
Application Number: JP1998000232027

IPC Code: Advanced: H01M 4/02; H01M 4/58; H01M 10/40;  
Core: H01M 10/36; more...  
IPC-7: H01M 4/02; H01M 4/58; H01M 10/40;

Priority Number: 1998-08-18 JP1998000232027

Abstract: PROBLEM TO BE SOLVED: To provide a battery having an excellent cycle characteristic by making a negative electrode mix density appropriate by using a molded product comprising a mixture containing a predetermined compound lithium-containing nitride, a carbon material and a binder and having a density of a specific range as an active material of a negative electrode.

SOLUTION: A molded product comprising a mixture containing a compound lithium-containing nitride represented by a formula:  $\text{Li3-x-yMxN}$  (M represents at least one transition element selected from a group consisting of Ti, V, Cr, Fe, Co, Ni and Cu,  $0.1 \leq x \leq 0.8$ ,  $0 \leq y \leq 2-x$ ); a carbon material; and a binder is used as an active material of a negative electrode for a lithium secondary battery. Then, the density of the molded product is 1.0 g/cm<sup>3</sup> or more to 1.95 g/cm<sup>3</sup> or less, preferably 1.4 g/cm<sup>3</sup> or more since a contacting state between active material particles and between the active material particle and a conductive material particle inside a mix is varied depending on a mix density and an electrode characteristic is largely



View Image


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influenced by the mix density of a plate.  
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Family: None

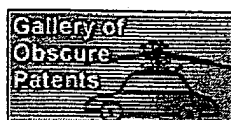
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References:

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PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6706447	2004-03-16	Gao; Yuan	FMC Corporation, Lithium Division	<u>Lithium metal dispersion in secondary battery anodes</u>

Other Abstract  
Info:

CHEMABS 132(13)168761S CHEMABS 132(13)168761S DERABS C2000-262673 DERABS C2000-262673



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